

## SOUND SYSTEM





BY APPOINTMENT TO  
HER MAJESTY QUEEN ELIZABETH II  
MANUFACTURERS OF DAIMLER AND JAGUAR CARS  
JAGUAR CARS LIMITED COVENTRY



BY APPOINTMENT TO  
HER MAJESTY QUEEN ELIZABETH  
THE QUEEN MOTHER  
MANUFACTURERS OF DAIMLER AND JAGUAR CARS  
JAGUAR CARS LIMITED COVENTRY



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MANUFACTURERS OF DAIMLER AND JAGUAR CARS  
JAGUAR CARS LIMITED COVENTRY

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## SOUND SYSTEM

## FOREWORD

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The information contained herein applies to a range of vehicles and not to a specific vehicle. For the specification of a particular vehicle owners should consult their Jaguar Dealer.

JAGUAR  
SOUND SYSTEM

Sound System Handbook

# RADIO CASSETTE

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## SECTION 1

# RADIO CASSETTE

## Radio Cassette Player Controls



1. ON/OFF switch and volume control.
2. Cassette tape-in indicator and eject button.
3. Cassette tape/CD player button.
4. FM/AM band switch.
5. Radio tuning control, cassette tape forward/rewind control and compact disc (CD) player forward/reverse control (where fitted).
6. Preset buttons.
7. TA (Traffic Information/Radio data system), (United Kingdom and Europe only).  
Traffic information (Japan only).  
SCAN (All markets except for United Kingdom, Europe and Japan).
8. Auto memory (A-MEM).
9. Programme change (cassette operation) and CD Mix (where fitted).
10. Dolby B noise reduction (cassette operation).
11. Mode button.

# RADIO CASSETTE

## Aerial Operation

The aerial automatically rises when the radio is switched on and the ignition switch is in position I or II. The aerial will lower when the radio is switched off.

### **Caution: Do not attempt to raise the aerial manually.**

It is important to clean the radio aerial periodically to maintain smooth operation and good reception.

## Radio Cassette Player

### Security Code Number (United Kingdom and Europe)

This unit is protected by an anti-theft security code. If power to the radio drops to 5 volts or less, (dead battery), or there is a power interruption/disconnection, after a short while the radio display will indicate 'CODE'. At this point the radio will not operate until you have re-entered the correct security code.

The four-digit code for your radio is listed on the two radio security cards supplied with the vehicle. Enter the code by using the pre-set buttons 1 to 6 and a 'beep sound' occurs. If the code is not properly entered, then begin the code entry again, starting with the first digit. If the code is not properly entered after three successive attempts, the radio will not accept any entry until it has been left on for one hour (the radio display will show the word 'WAIT'). After one hour in the 'ON' position the radio will accept three further entries.

**Note:** Should you lose your radio security cards, contact your Jaguar Dealer, who, for security reasons will require proof of vehicle ownership.

## ON/OFF and Volume Control

Press the knob to switch on the radio cassette and illuminate the display. Press the knob again to switch off.

## Automatic Volume Control (AVC)

This is a feature which raises the volume of the radio to overcome road noise as the vehicle's speed increases. To switch AVC on or off, press the volume knob for more than two seconds. The current state will be displayed ie, 'AVC ON'/'AVC OFF'.

When AVC is ON it is possible to override the automatic mode by adjusting the volume manually. When AVC is switched off, the volume will return to normal setting after about five seconds.

## Mode Button

This controls the function of bass, treble, left to right balance and front to rear fade. To cycle through these functions, press the mode button repeatedly. Once the required function has been selected turn the volume control to adjust sound quality. After about five seconds the radio will revert to normal volume control mode.

## Source Tone Memory

Bass and treble positions are automatically memorised for radio, cassette tape and CD allowing individual settings for each mode.

## Radio Operation

### Examples of Radio Display Indication

TP Traffic Programme (United Kingdom and Europe).

TP Tape Play (All markets except United Kingdom and Europe).

ST Stereo.

### FM and AM Reception

FM reception has the advantages of low noise, minimal distortion, wide dynamic range, extended frequency response, and is usually broadcast in stereo. However, as FM frequency waves are relatively short and travel in a straight line, they can sometimes be impeded by obstructions, which may interrupt good reception in some parts of the country.

Whilst FM reception will generally provide better quality sound, AM reception or Medium Waveband (MW) and Long Waveband (LW) (United Kingdom and Europe) may be better in remote areas not covered by the shorter range FM transmitters.

When experiencing poor FM reception, background noise can be reduced by adjusting the Mode button in Treble adjustment position.



Band Switch FM/AM – Band selection will be shown in the display panel. Pressing the band switch repeatedly will cycle the radio through FM, AM, Medium and Long Wavebands (where applicable). When a cassette tape or CD is being played, pressing the Band Switch selects radio operation.



Tuning Control – This control has two upward positions and two downward positions. The first position up or down will activate the radio in the seek mode, making the tuner search for the next available station.

Push and hold the control in the second position up or down to tune the radio manually, the display counts up or down to the frequency required. Incremental adjustment can be made by toggling the control between the first and second positions.

# RADIO CASSETTE



## Preset Buttons

**WARNING:** Programme your six presets before starting a journey. It is dangerous to conduct the preset procedure while driving.

In each waveband, six stations can be memorised in the bank of preset buttons marked 1 to 6. After tuning to a station, hold the chosen preset button for at least two seconds. The unit will 'beep' to indicate that the station has been stored. The red light on the button then lights up. The station can be recalled from this preset memory by pressing the button momentarily, for less than two seconds.



Scan (All markets except for United Kingdom, Europe and Japan) – Press the button and release, the radio will search up the waveband for the next 'strong' station. After listening to this station for twenty seconds, the radio will continue searching and pausing as it scans the waveband. To cancel, press the button again, or press any other button.



Traffic Information (Japan Only) – Press this button to select 'Traffic Information', where available, using the AM frequency. There are two frequencies that can receive this information. By pressing this button repeatedly it is possible to cycle through these frequencies and your previously selected mode.

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Auto Memory (A-MEM) – The automatic memory function, programmes the six strongest stations on the selected waveband into presets 1 to 6.

To activate this function, hold the button marked 'A-MEM' for at least two seconds. There will be a brief silence while the radio searches the waveband for the six strongest stations. The unit will then 'beep' to indicate that programming is complete. The red light on the button will then light up. It will then select preset number '1', and turn the sound back on. If no station is found, the display will show 'NO FM' or 'NO AM'.

To switch between the A-MEM preset stations and your own presets, press the button for less than two seconds.



## Auto Memory (A-MEM) with Radio Data System (RDS) Selected (United Kingdom and Europe only)

When RDS is selected and the A-MEM function operated, the radio sound will go off, while the radio searches for the six strongest RDS stations. Similarly, if A-MEM is used with Traffic Announcement (TA) activated, the radio will only programme the six strongest RDS stations carrying traffic information. If six stations are not available, the display will show 'NO FM'.

Note: When used correctly, RDS and TP are very effective additional features in the radio's capabilities. However, if these facilities are used without full understanding, they may cause a situation confusing to the operator. This is less likely to occur as more RDS stations become available.



## RDS (Radio Data System) and TA (Traffic Announcements) (United Kingdom and Europe only)

The Jaguar radio is equipped with an advanced Radio Data System decoder (RDS) to assist finding and staying tuned to a chosen radio station. The radio picks up inaudible signals transmitted on the FM waveband which permit automatic programme tuning, display of the station's identity and up-to-the-minute TA (Traffic Announcements).

Some elements of this broadcast information system are transmitted on the FM waveband in most European countries.

The Jaguar Radio RDS facility provides three functions:

Station name display.

Automatic re-tuning to follow network stations.

Local radio station's Traffic Announcements.

**RDS Station Name Display** – When RDS is selected the station name is displayed in eight characters rather than the frequency. The display also identifies network 'splits', where different programmes are being broadcast on FM, Medium Wave or Long Wave.

**RDS Automatic Tuning** – RDS provides fully-automatic radio tuning. It tunes to a signal not a frequency. The RDS will search out the strongest signal available for a given station and automatically switches frequency as necessary.

# RADIO CASSETTE

**RDS Traffic Information** – Although there is a wide range of travel information available from National and Local Radio, a driver only requires information relevant to the vehicle's current locality. RDS provides this information, automatically. As soon as the authorities learn of a traffic problem, they inform the nearest local radio station. The traffic news is then broadcast by the transmitters in the relevant area. The TA will interrupt radio, cassette tape or CD play, on all equipment with the RDS feature, provided Traffic Announcement has been selected. If the volume control is set at minimum it will automatically increase to an audible level for the duration of the traffic news-flash.

When the news-flash is over, the system switches back to the driver's original listening choice and volume setting.



**RDS and TA Operation** – To activate RDS, press the TA button and hold for at least two seconds, the display will indicate 'RDS ON' or 'RDS OFF' as appropriate. The radio then gathers RDS information and displays the Programme Service name in place of the frequency, provided the programme chosen is an RDS station. If it is not the radio will remain on station, the display will show the frequency and the 'RDS' will remain on in readiness for a signal.

When listening to a National Network Station, or a station that broadcasts on more than one frequency, the radio will automatically re-tune to the strongest available signal. This 'network following' facility will continue throughout the journey. (The unselected presets will also receive updated frequency information, if appropriate)

When 'RDS' data is lost and no 'AF' (Alternative frequency) signal is available, the radio will stay on station, the display will show the frequency only and 'RDS' will remain on in readiness for the signal to recover.

If the 'RDS' function does not respond correctly, refer to the 'RDS Trouble-Shooting Guide' on page 11.

# RADIO CASSETTE



**TA - Traffic Announcement** - Press the TA button momentarily for less than two seconds, a red light will show in the button. The radio then checks that the station has RDS TP (Traffic Programmer) indicated by TP at the top of the display. If the current station has no TP available the display will show TP SEEK while it searches for a station that does have TP. The radio will then provide traffic announcements whenever they are transmitted. When the receiver finds a display with a TRAFFIC message over a two minute interval, radio tape or CD play will be suspended until the volume is increased. The volume will be increased for the brief instant it reverts to normal setting afterwards.



## Switching Off RDS and TA Functions

To switch off the TA function only - Press the TA button momentarily for less than two seconds so a beep will be heard and the red light will go out.

To switch off RDS and TA functions - Press the TA button and hold for at least two seconds, the red light will go out and the display will revert to frequency only.



**TA - Preset Minimum Volume** - When the radio is set to minimum volume and a traffic announcement occurs, the volume is raised to a preset level. This level is adjustable by pressing the MODE button and holding for more than two seconds. The volume level is adjustable between -10 to 6 by turning the volume control knob.

# RADIO CASSETTE

## RDS Trouble-Shooting Guide

### Incorrect response from RDS

Radio does not display programme name

Station name is lost and displays frequency only

Upon operating the A-MEM, most or all of the presets display 'NO FM' when pressed

Upon pressing the TA button the radio re-tunes to another station and displays 'TP SEEK'

Radio sound goes off and the display shows 'P SEEK'

Radio beeps and the display shows 'NO TP TA'

### Reason and rectification

One of two causes may be responsible - failure or the unit to receive a two-line RDS station name or failure of the tuner to receive and decode RDS data as you are trying to reception a station. Try to tune into a station with RDS.

Radio has lost the ability to find RDS data because the receiving coil has either failed or has been shielded. Under a service forecast, simply turn the volume down to a setting of the latest station and wait until the next broadcast of the station. There is a short delay before the station name appears.

The radio cannot find six FM, RDS FM or TP stations dependent upon the mode selected. If this occurs, switch off RDS or TA function and reselect A-MEM.

The station selected does not have TP/TA facility, the radio will re-tune to one that does.

The RDS radio station selected is unable to confirm that the frequency tuned to has the correct RDS data - probably identical to an FM. It will then seek for a frequency that has the correct data.

The TD/TP function also won't be able to receive TA if the antenna is either too long for the current AC frequency range or less of signal coverage, to being too close, radio coverage to power supply or similar shielding. If required, move the radio to another station or turn off TA.

# RADIO CASSETTE

## Cassette Tape Operation

At all times the play will start at which sector has been selected - A or B & side 1 or 2 (FF for Fast Forward).

When playing cassette, it will automatically start play in side 1. After playing one side of the cassette, it will auto-reverse and play side 2. When playing other than metal tape, side information will be automatically adjusted and MTL will show in the display.

## Examples of Cassette Tape Play Display Information

SEEK UP Search to beginning of next track.

SEEK DN Search to beginning of the first song on 1

REW Rewind.

FF Fast forward

MTL Metal or Chrome tape being used

CLEAN TAPE Tape mechanism requires cleaning



Eject Button - Press to eject the cassette

Tape in Indicator When a cassette is inserted in the player the apertive door closes and an indicator light 'Tape-in' on the Eject Button comes on



Tape Button If you press this button during the selection after pressing this button will play any cassette that is in the player

# RADIO CASSETTE



**Dolby B** If you are using a cassette with a Dolby recording, to select the noise reduction system, press the Dolby on/off button. A red light above the button will come into function after.

Dolby noise reduction system is a trademark of E.I. du Pont de Nemours and Company. Dolby Laboratories Licensing Corporation. Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.



**Programme Change Button** When playing a cassette, press this button to change to the other side of the tape.



**Forward, Rewind Control** This controls the fast forward and the reverse of the cassette. If you push the first part of the button, it will fast forward to the beginning of the next track. The first part is downward and the second part is upward. The beginning of the current track is selected.

Push the left half of the button to fast forward or the right half to fast reverse. Push the right half of the cassette. This can be selected by pressing the control of the unit.

1



**Traffic Announcement (TA) - Local Radio Stations (United Kingdom and Europe)**

**To select Traffic Announcement** Press the TA button once and hold it until a brief window on the button. When there is traffic announcement, the radio station of the cassette repeat. It shows 'TRAFFIC'.



**Scan (All markets except for United Kingdom, Europe and Japan)** Press the button and release the unit will search to the beginning of the next track. After listening to the track for 20 seconds, the unit will continuously search and play the first 20 seconds of each track.

**To Cancel:** Press the button again

# RADIO CASSETTE

## Cassette Tape Operation (continued)



Band Switch (FM/AM) Pressing this button selects radio operation



TAPE/CD Button Pressing this button selects compact disc (CD) play (where offered)

## COMPACT DISC PLAYER

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## SECTION 2

# COMPACT DISC PLAYER

## Compact Disc (CD) Player (Where fitted)

The radio cassette is used to control the function of a CD Player. The CD unit comprises a player and changer which contains a magazine of six compact discs. This equipment is mounted in the luggage compartment. The CD player and changer are available as an accessory from your Jaguar Dealer.

## CD Changer - Loading and Unloading Discs and Magazine

The CD changer is mounted in the luggage compartment.

### Inserting Compact Discs

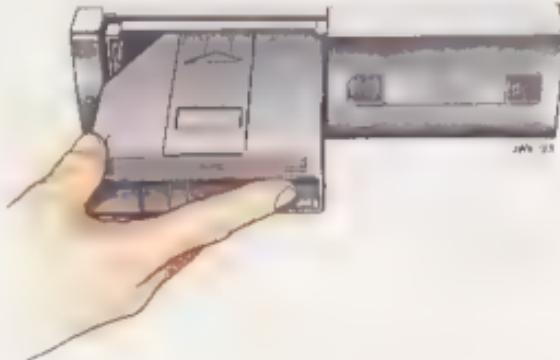
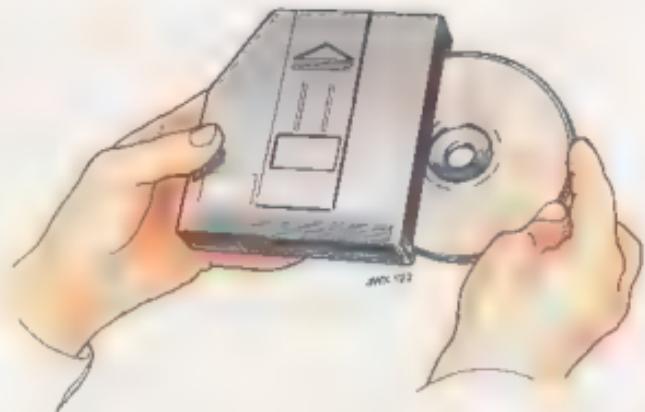
Insert your six selected discs into the magazine with the labels facing up.

Discs can be inserted in either side of the top slot. Tap a disc gently while it drops into place. Discs are stored in the magazine.

### Inserting the magazine

To fit the CD magazine, discs have to be held in whilst the slot is inserted. The changer is shown in the position with the arrow mark facing up and pointing toward the CD changer. Ensure that it clicks into position.

Always make sure that the slot is open so that disc dust can be dusted out of the mechanism.



# COMPACT DISC PLAYER

## Magazine Eject

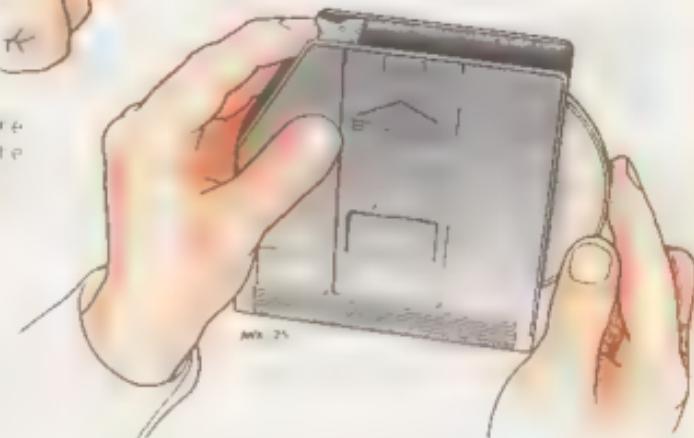
Slide the CD magazine out of the unit by pressing the eject button on the left side of the front panel. The magazine can be inserted into the player. The indicator light will turn green when it is inserted.



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## Removing Compact Discs

Press the white tab on the top of the magazine to release the disc. Hold the edge of the CD and carefully pull it out of the magazine taking great care not to touch the play surface.



# COMPACT DISC PLAYER

## Compact Disc (CD) Operation

The radio display shows which function has been selected by using a simple statement, for example: DISC 1 or TRACK 2.

### Examples of Compact Disc Display Information

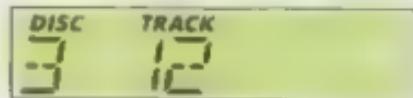
**DISC** Disc number selected

**TRACK** Track number selected

**NO DISC** There is no Disc in the selected position

**NO MAG** There is no magazine in the CD Changer

**CD MIX** The CD is in MIX mode



**CD button** This button can select the Tape or CD from auto mode. Tape always takes priority if there is a cassette ready in the player. To activate CD play, press the button twice. Pressing the Tape/CD button subsequently will cycle the selection: CD to Tape.



**CD Selection** Buttons 1 to 6 directly select the CD in those positions in the Changer magazine. This selection is shown in the display. The display flashes during loading and during play. If there is no disc in the selected position, NO DISC will be displayed. If there is no magazine in the Changer, NO MAG will be displayed.



**CD MIX** Press this button to select CD MIX feature. The display will show CD MIX and the player will start to play the tracks of your selected CD in a random order. To cancel, press CD MIX again or any other control.

# COMPACT DISC PLAYER



**Forward, Reverse Control** This control has two positions: up and down. The upward and downward directions. The first position up will activate track skip to the next track. In >CD Continuous play holding the control to this position will select further track numbers. These selections are indicated in the display. The first position down activates return to the beginning of the current track. Continuously holding the control to this position selects previous tracks.

Pushing the control to the second position up or down selects continuous fast forward or fast reverse playing of the CD.

This sound level reduces noise in the scanning and reviewing modes. Cancellation can be achieved by pushing the control back towards the rest position.



**Traffic Announcement (TA)** Local Radio Stat on (United Kingdom and Europe)

To select traffic announcement. Press the TA button once briefly to beep with the beam and a red light will show on the button. When there is a traffic announcement the arrow will keep the CD and the display will show TRAFFIC.

2



**Scan (All markets except for United Kingdom, Europe and Japan)** Press the button and release the will search for the beginning of the first track of the CD. After listening to the track for 20 seconds, the unit will continuously search and play the first 20 seconds of each succeeding track of one CD. Cancel scan by pressing the button again.



**Band Switch FM/AM** - Press this button to switch to radio



**Tape Button** - Pressing this button selects tape play if a cassette is in the player

# COMPACT DISC PLAYER

## Compact Disc Player Fault Diagnosis

If the CD Player does not operate properly, an error message will be displayed. The following table gives a fault diagnosis for each error message displayed.

MESSAGE	CAUSE	SOLUTION
<b>E-01</b>	Disc-change malfunction	See your Jaguar Dealer
<b>E-02</b>	Disc is in player mechanism	Press the magazine eject button. Insert an empty magazine into the player. Eject the disc from the player by pressing the eject button. If the magazine fails to eject from the player, see your Jaguar Dealer.
<b>E-03</b>	Disc-change malfunction	The disc message goes out without a few seconds. Check it again correctly. If the error message stays, see your Jaguar Dealer.
<b>E-04</b>		
<b>E-05</b>	Disc-change malfunction	
<b>E-06</b>	Disc-change malfunction	Press the magazine eject button to eject the magazine. Check if the error message goes out after operate the function again. If the magazine does not open, see your Jaguar Dealer.

# COMPACT DISC PLAYER

## Compact Disc Player Fault Diagnosis (continued)

MESSAGE	CAUSE	SOLUTION
<b>E - 07</b>	Magnet/ejector unusable	Press the rightmost button of the four buttons of eject, see your Jaguar Dealer
<b>E - 30</b>	Hot or cold air	The car must cool down over the long term, subject within the operating range
<b>NOT CONT</b>	Bad connection or faulty CD changer	Replace the cable or contact your Jaguar Dealer
<b>NO MAG</b>	No CD in ejector or the CD changer	Insert the CD magazine
<b>NO DISC</b>	No CD in the magazine	Press the rightmost button of the four buttons of eject



# SYSTEM CARE

## Taking Care of Your Vehicle's Sound System

### Radio

Do not use petrol, solvents or abrasive cleaners on the radio. Wipe the surface of the radio with a lint-free cloth to remove dust. Slightly moisten the cloth with clean water to remove any finger-marks from the outside surfaces of the radio.

### Cassettes

Always use good quality cassettes. Low cost tapes can cause jamming, the sound quality will be inferior, and they can create a fast build-up of deposits on the play-back head.

Before playing, check the cassettes to ensure that the tape is not loose on the spools. If necessary, take up the slack by gently turning the spools with the end of a pencil. A jammed or sticking tape will cause the auto-reverse mechanism to operate continuously.

It is best not to use a tape longer than 45 minutes playing time each side (C90). Cassettes should be stored in their library cases away from direct sunlight. Do not store cassettes in door pockets where they could be effected by the magnets in loud-speakers which might impair the sound quality.

Never insert a cassette that has a torn or lose label, it may cause the mechanism to jam.

After approximately 15 hours playing time, the display on the radio will show 'CLEAN TAPE'. You should then clean the tape mechanism itself using a mechanical type cleaner with a wetting agent in an approved kit available from your Jaguar Dealer. Do not use abrasive type cleaners as they can cause excessive wear on the play-back head.

### Compact Discs (CDs)

When handling compact discs, do not touch the playing surface. When they are not being used they should always be stored in their cases away from direct sunlight, heat and dust. Scratches, fingermarks or dust on the surface of a disc can cause the optical pick-up to skip tracks. If the surface is dirty, use an appropriate CD cleaner.

Do not attempt to play damaged, warped, cracked or oversized discs. They could seriously damage the play-back mechanism.

### Aerial

The aerial care procedure should be carried out when cleaning the exterior of the vehicle, to ensure smooth and reliable operation of the aerial.

When cleaning the aerial, always wipe it in an upward direction. Occasionally use an aerial maintenance wipe cloth to lubricate the aerial.

In freezing conditions check that no ice has formed over the top of the aerial, this could prevent it from being raised, causing damage to the lift motor.

A special aerial cleaner is available from your Jaguar Dealer.

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